Center for the Advancement of Science in Space
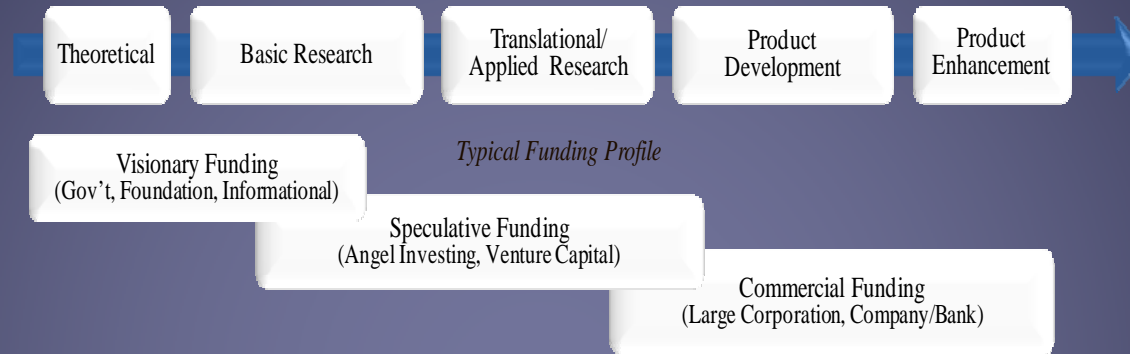
C A S I S
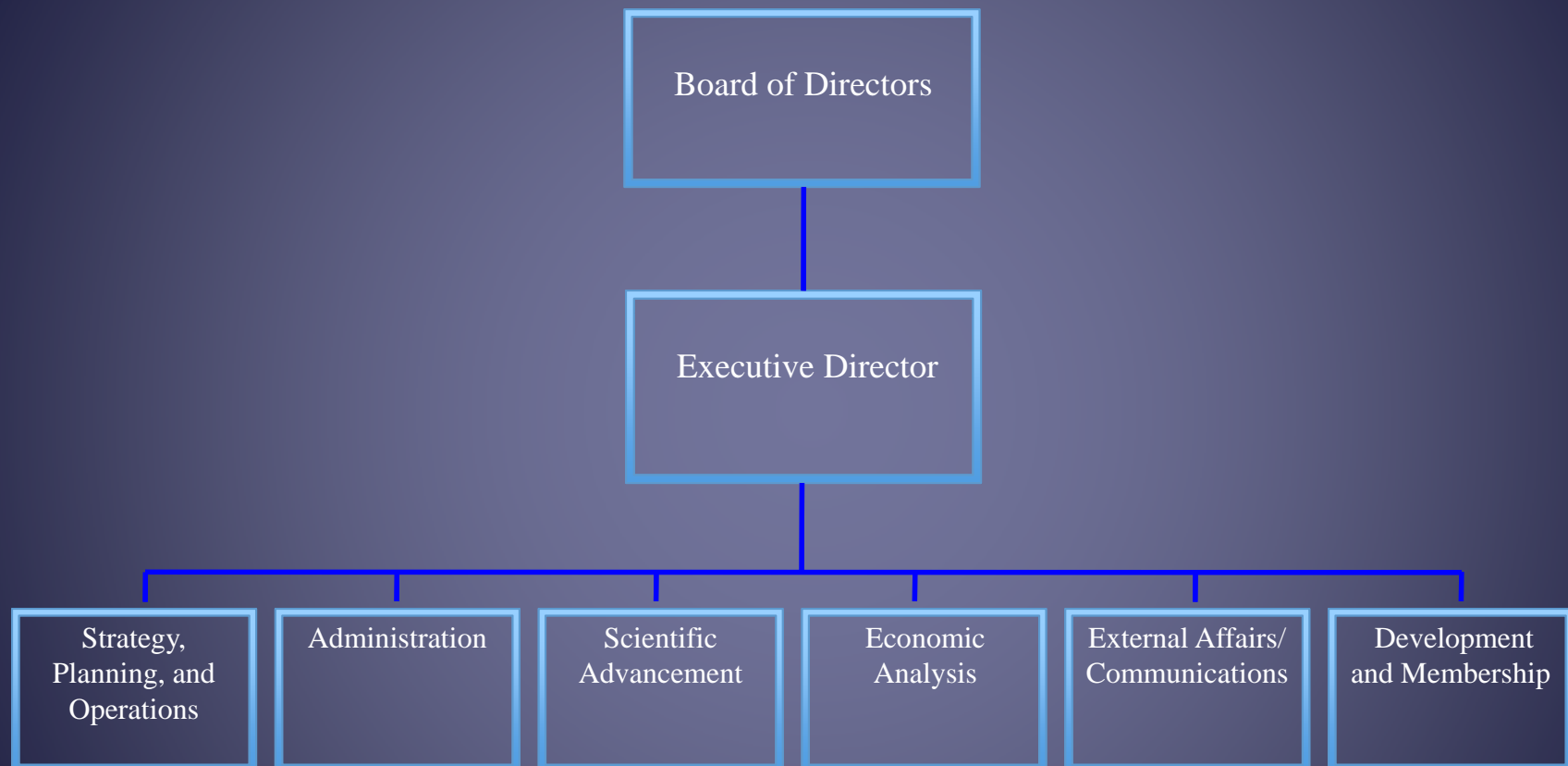
www.iss-casis.org

Mission

- **Maximize the value of the ISS to the nation by developing and managing a diversified R&D portfolio and by using the ISS as a venue for Science, Technology, Engineering and Mathematics (STEM) educational activities.**

- **Stimulate, develop and manage the U.S. National Lab utilization of the ISS by other U.S. government agencies, academic institutions and private firms.**

- **Develop tools and techniques to communicate the value of uses of the ISS National Lab and increase the return on the U.S. investment in the ISS.**
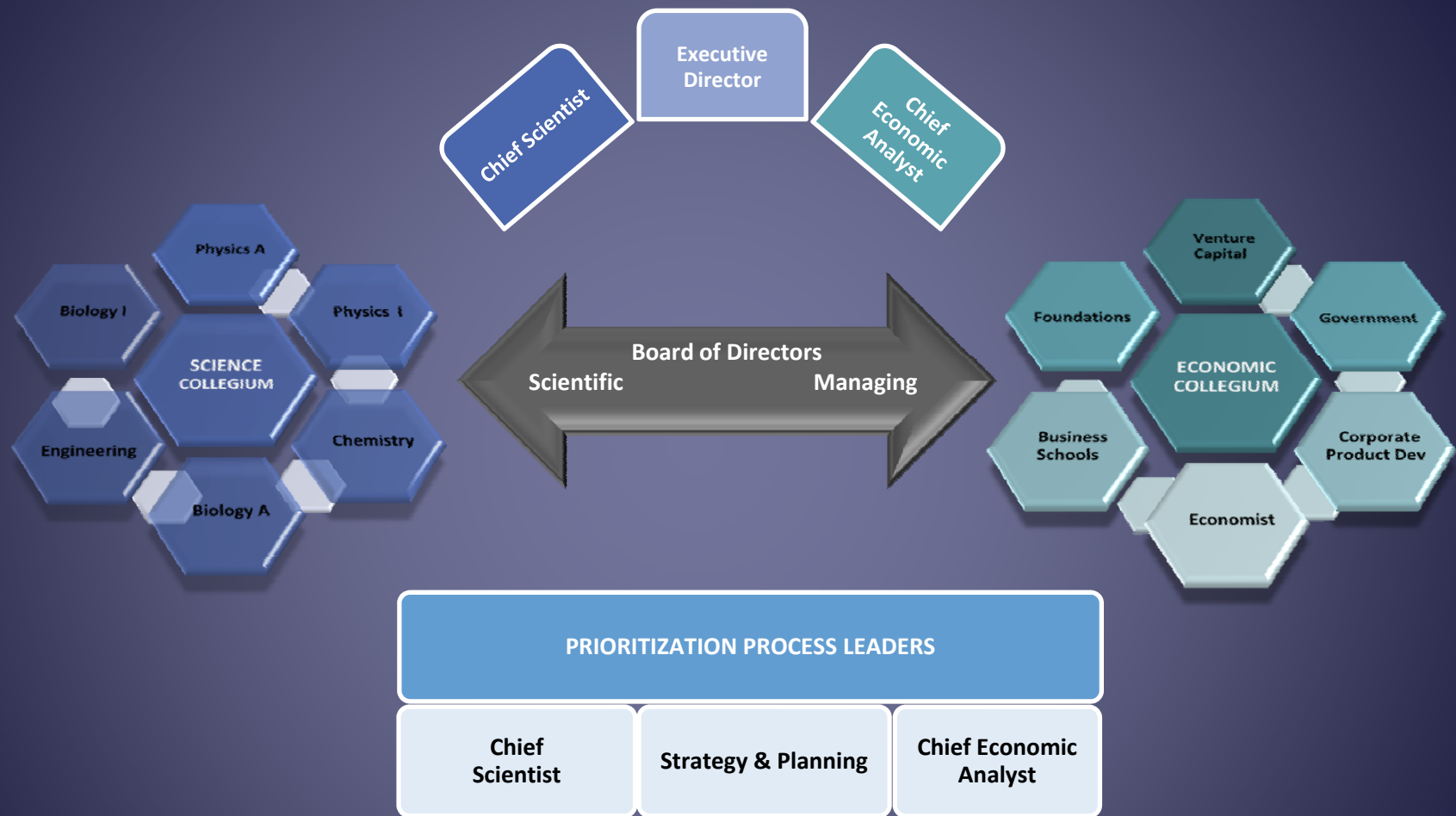
RESEARCH PATHWAY MAP

| Theoretical | Basic Research | Translational/ Applied Research | Product Development | Product Enhancement |

Typical Funding Profile

Visionary Funding
(Gov't, Foundation, Informational)

Speculative Funding
(Angel Investing, Venture Capital)

Commercial Funding
(Large Corporation, Company/Bank)

Research pathway maps connect basic research, applied research and resulting mission and market applications. Viewed as a continuum, promising pathways can be identified so as to shorten cycle time for translation of developing science and technology applications to practical use and application. Projects will be evaluated in the context of the overall research pathway map, to provide a basis for return on investment and for creation of added value.

CASIS Organizational Structure

```
                    ┌─────────────────────┐
                    │  Board of Directors │
                    └─────────────────────┘
                              │
                    ┌─────────────────────┐
                    │  Executive Director │
                    └─────────────────────┘
                              │
```

| Strategy, Planning, and Operations | Administration | Scientific Advancement | Economic Analysis | External Affairs/ Communications | Development and Membership |

CASIS Organization Elements

- Research Pathways

- Membership Model

- Marketplace

- Development (Marketing and Advocacy)

- Leverage Existing Supply Chain
  o Implementation partners
  o Investigator research planning

Contact information:

Director: jbecker@iss-casis.org

Administration: jhutcheson@iss-casis.org

Strategy, Planning, Ops: jroyston@iss-casis.org

Media: tlange@cfl.rr.com
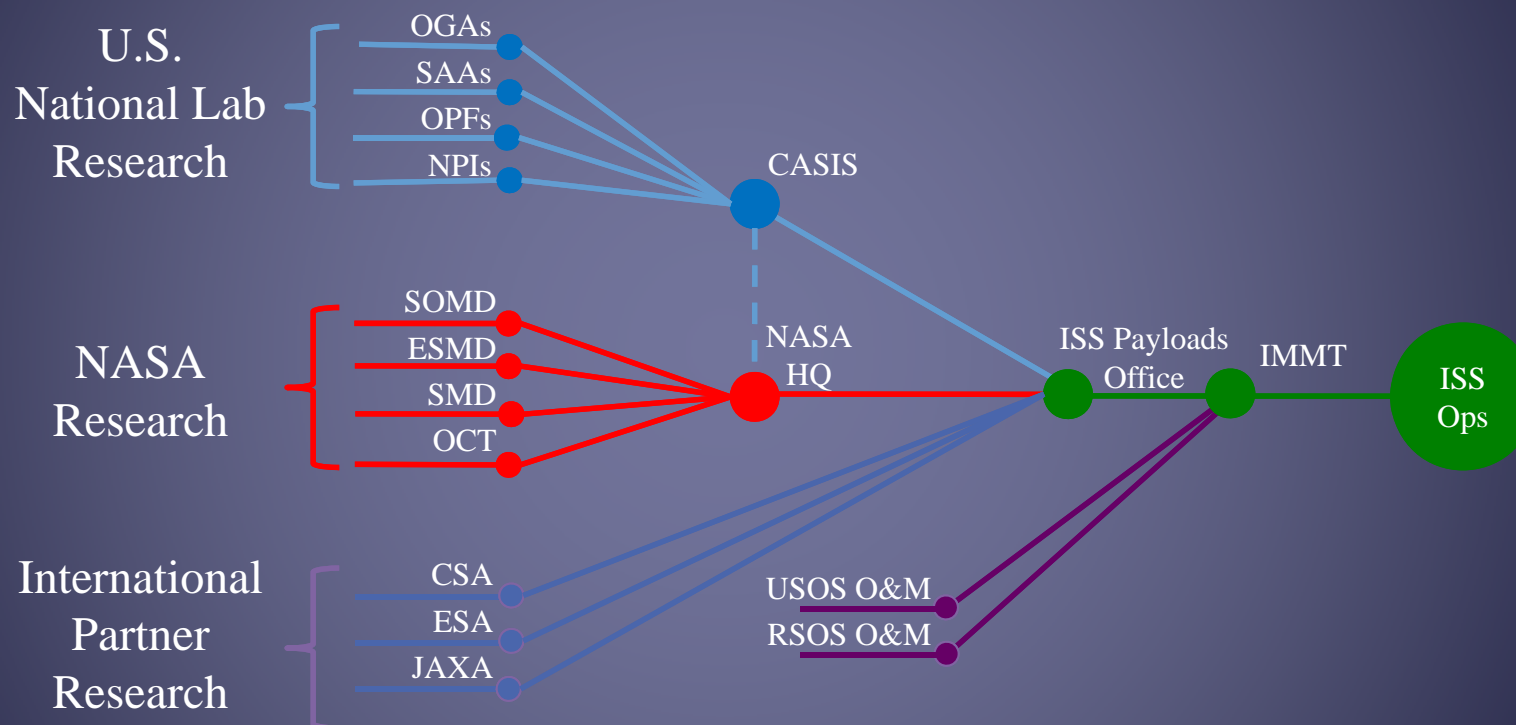
General information: info@iss-casis.org

Phone: 888-641-7797

ISS Requirements Integration & Prioritization

**An orderly process is essential for integrating
mission requirements across competing organizations.**

CSA – Canadian Space Agency	OCT – Office of the Chief Technologist (NASA)
ESA – European Space Agency	OGA – Other Government Agency (U.S.)
ESMD – Exploration System Mission Directorate (NASA)	OPF – Other Private Firm (U.S.)
IMMT – ISS Mission Management Team	RSOS – Russian Segment Operating System
JAXA – Japan Aerospace Exploration Agency	SAA – Space Act Agreement (NASA)
NLE – National Lab Entity (U.S.)	SMD – Science Mission Directorate (NASA)
NPI – Non Profit Institutions (U.S.)	SOMD – Space Operations Mission Directorate (NASA)
O&M – Operations and Maintenance	USOS – U.S. Segment Operating System